

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gary A. Jubb, Paul N. Eaton,  
Philip J. Canty, and  
Alison J. Wassell

Serial No.: 09/202,758

Filed: December 21, 1998

For: *SALINE SOLUBLE*  
*INORGANIC FIBRES*

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Assistant Commissioner  
for Patents  
Washington, D.C. 20231

Attorney Docket No. M8540/185343

Date: April 8, 1999

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

In accordance with Rules 56, 97 and 98 of the Rules of Practice in Patent Cases (37 C.F.R. §§ 1.56, 1.97, and 1.98), Applicants' undersigned representative cites and encloses copies of the references listed on the attached modified Form PTO-1449.

This application is a U.S.C. 371 national designation of International Application No. PCT/GB97/01667, filed June 20, 1997, which claims priority to Great Britian Application No. 96 13023.2, filed June 21, 1996.

The undersigned does not concede that any of the identified materials constitute prior art within the meaning of the United States patent laws.

U.S. Serial No. 09/202,758  
INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is being filed before the mailing of the first Office Action on the merits (37 C.F.R. 1.97(b)(3)), therefore, no fee is required. However, if a first Office Action on the merits has issued, please consider this Information Disclosure Statement under 37 C.F.R. 1.97(c). The Assistant Commissioner is hereby authorized to charge the applicable fees, if any, to Deposit Account No. 11-0855.

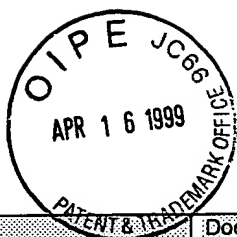
Respectfully submitted,



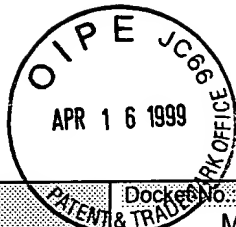
Bruce D. Gray  
Reg. No. 35,799

KILPATRICK STOCKTON LLP  
1100 Peachtree Street, Suite 2800  
Atlanta, Georgia 30309-4530  
(404) 815-6500

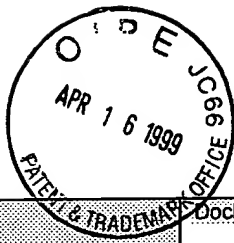
Attorney Docket No. M8540/185343



Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: <b>M854/185343</b>			Application No.: <b>09/202,758</b>		
		Applicant: <b>Gary A. Jubb</b>					
		Filing Date: <b>December 21, 1998</b>			Group/Art Unit:		
		<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		5,332,699	07/94	Olds <i>et al.</i>			
		5,312,806	05/94	Mogensen			
		5,250,488	10/93	Thelohan <i>et al.</i>			
		5,248,637	09/93	Taneda <i>et al.</i>			
		5,217,529	06/93	Tiesler <i>et al.</i>			
		5,108,957	04/92	Cohen <i>et al.</i>			
		5,121,748	06/92	Ditz <i>et al.</i>			
		5,055,428	10/91	Potter			
		5,032,552	07/91	Nonami <i>et al.</i>			
		4,957,559	09/90	Tiesler <i>et al.</i>			
		4,693,740	09/87	Noiret <i>et al.</i>			
		4,678,659	07/87	Drake <i>et al.</i>			
		4,661,134	04/87	Hartung			
		4,615,988	10/86	Le Moigne <i>et al.</i>			
		4,555,492	11/85	Ekdahl <i>et al.</i>			
		4,482,541	11/84	Telfer <i>et al.</i>			
		4,443,550	04/84	Kume <i>et al.</i>			
		4,437,192	03/84	Fujiu <i>et al.</i>			
		4,377,415	03/83	Johnson <i>et al.</i>			
		4,366,251	12/82	Rapp			
		4,351,054	09/82	Olds			
		4,342,581	08/82	Neubauer <i>et al.</i>			
		4,325,724	04/82	Froberg			
		4,274,881	06/81	Langton <i>et al.</i>			
		4,251,279	02/81	Ekdahl			
		4,238,213	12/80	Pallo <i>et al.</i>			
		4,205,992	06/80	Mogensen <i>et al.</i>			
		4,153,439	05/79	Tomic <i>et al.</i>			
		4,055,434	10/77	Chen <i>et al.</i>			
		4,054,472	10/77	Kondo <i>et al.</i>			
		4,036,654	07/77	Yale <i>et al.</i>			
		3,887,386	06/75	Majumdar			
		3,799,836	03/74	Tomic <i>et al.</i>			
		3,449,137	06/69	Ekdahl			
		3,348,956	10/67	Ekdahl			
		2,823,416	02/58	Powell			
		2,577,431	12/51	Powell			
		2,576,312	11/51	Minnick			
		2,520,169	08/50	Powell			
		2,520,168	08/50	Powell			
Examiner:			Date Considered:				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							



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		Filing Date: <b>December 21, 1998</b>		Group Art Unit:				
<b>U.S. PATENT DOCUMENTS</b>								
		2,428,810	10/47	Powell				
		2,308,857	01/43	Bowes				
		2,155,107	04/39	Tyler <i>et al.</i>				
		2,116,303	05/38	Coss				
		2,051,279	08/36	Thorndyke				
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
	✓	WO 96/01793	01/96	PCT				
	✓	WO 95/29135	11/95	PCT				
	✓	WO 94/14718	07/94	PCT				
	✓	WO 94/14717	07/94	PCT				
	✓	WO 93/22251	11/93	PCT				
	✓	WO 93/19596	10/93	PCT				
	✓	WO 93/15208	08/93	PCT				
	✓	WO 92/09536	06/92	PCT				
	✓	WO 92/07801	05/92	PCT				
	✓	WO 91/11403	1991	PCT				
	✓	WO 90/11756	10/90	PCT				
	✓	WO 90/02713	03/90	PCT				
	✓	WO 89/12032	12/87	PCT				
	✓	WO 87/05007	08/87	PCT				
	✓	WO 86/04807	08/86	PCT				
	✓	WO 85/02394	06/85	PCT				
	✓	0 591 696	04/94	Europe				
	✓	0 588 251	03/94	Europe				
	✓	0 586 797	03/94	Europe				
	✓	0 585 547	03/94	Europe				
	✓	0 546 984	06/93	Europe				
	✓	0 459 897	12/91	Europe				
	✓	0 412 878	02/91	Europe				
	✓	0 399 652	11/90	Europe				
	✓	0 399 320	11/90	Europe				
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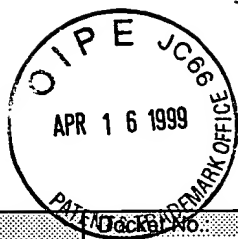
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Examiner		Document Number	Date	Country	Class	Subclass	Translation	
Initials							YES	NO
		0 144 349	04/92	Europe				
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		0 091 866	10/83	Europe				
		0 076 677	04/83	Europe				
		0 019 600	11/80	Europe				
		2,017,344	11/90	Canada				
		588493	12/59	Canada				
		266 2688	12/91	France				
		266 2687	12/91	France				
		211 8026	07/72	France				
		158 9410	05/70	France				
		116 5275	10/58	France				
		114 9289	12/57	France				
		390 5394	09/89	Germany				
		344 4397	06/86	Germany				
		274 8127	05/78	Germany				
		273 2387	11/78	Germany				
		194 2991	03/70	Germany				
		DE 4417230	11/95	Germany				
		GB 2164557	03/86	United Kingdom				
		GB 2122537	01/84	United Kingdom				
		GB 2083017	03/82	United Kingdom				
		GB 2081703	02/82	United Kingdom				
		GB 2011379	07/79	United Kingdom				
		GB 1446910	08/76	United Kingdom				
		GB 1209244	10/70	United Kingdom				
		GB 810773	03/59	United Kingdom				
		GB 790397	02/58	United Kingdom				
		GB 520247	04/39	United Kingdom				
		2 150 553	07/85	Great Britain				
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Examiner Initials	Document Number	Date	Country	Class	Subclass	Translation		
						YES	NO	
	1 273 205	05/03/72	Great Britain					
	1 399 556	07/02/75	Great Britain					
	AU 255803	07/63	Australia					
✓	FI 63007	12/82	Finland					
✓	SE 104380	04/42	Sweden					
✓	JP 56-54252	05/81	Japan			X partial		
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✓	JP 51-13819	02/76	Japan			X partial		
✓	JP 49-27620	03/74	Japan					
✓	JP 51-043429A	04/14/76	Japan					
✓	SU 607807	05/78	USSR			X		
✓	SU 276349	07/70	USSR					
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)								
✓	Brochure showing Manville Corporation Superwool Product (two pages)							
	Brochure showing Morgan Crucible Company Superwood Product (two pages)							
✓	Brochure showing Carborundum Company Insulfrax Product (sixteen pages)							
✓	Brochure re: PARGAS-Platten 1000°C Mineral Wool Plates (three pages)							
✓	"Fiber Glass," J. Mohr and W. Rowe, pp. 4-23							
✓	"Prediction of Glass Durability as a Function of Glass Composition and Test Conditions . . ." C.M. Jantzen, <i>Advances in the Fusion of Glass</i> , 24.1-24.17							
✓	"Stability of Radioactive Waste Glasses Assessed from Hydration Thermodynamics," M.J. Plodinec, C.M. Jantzen, and G.G. Wicks							
✓	"Nuclear Waste Glass Durability: 1, Predicting environmental Response from thermodynamic (Pourbaix) Diagrams," Carol M. Jantzen, <i>Journal of American Ceramic Society</i> , 75(9):2433-2448 (1992)							
✓	"Calcium Aluminate Glass Fibres: Drawing from Supercooled Melts Versus Inviscid . . .," F.T. Wallenberger <i>et al.</i> , <i>Materials Letters</i> , 11:229-235 (1991)							
✓	"Chemical Durability of Glass," <i>Chemistry of Glasses</i> , Chapter 6, 2nd Edition, A. Paul (1990)							
✓	Chemical Abstracts, 110(10):373, Abstract No. 81274g, (equivalent to CN-A-87 108257) (1989)							
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<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)			
	✓	"Low-Cost Reinforcing fibres Promise a High Level of Performance," S.A. Dunn, <i>Modern Plastics International</i> , pages 50-51 (1989)	
	✓	"The Behaviour of Mineral Fibres in Physiological Solutions," H. Förster, <i>Proceedings of 1982 WHO IARC Conference</i> , Copenhagen, Volume 2, pages 27-55 (1988)	
	✓	"Chemical Durability," <i>Glass Science and Technology</i> , Chapter 34, Elsevier (1988)	
	✓	"Glass-Water Interactions," H. Scholze, <i>Journal of Non-Crystalline Solids</i> , <b>102</b> :1-10 (1988)	
	✓	"The Reactions of MMMF in a Physiological Model Fluid and in Water," R. Klingholz & B. Steinkopf, <i>Proceedings of 1982 WHO IARC Conference</i> , Copenhagen, Volume 2, pages 61-86 (1988)	
	✓	"Solubility and Durability of Manmade Mineral Fibers in Physiological Fluids," J. Bauer, <i>et al.</i> , (nineteen pages; dated no later than 1988)	
	✓	Standard Test Methods for Fire Tests of Building Construction and Materials (ASTM E119-88) (fourteen pages; 1988)	
	✓	"An <i>in vitro</i> Study of the Chemical Durability of Siliceous Fibres," H. Scholze & R. Conradt, <i>Annals of Occupational Hygiene</i> , 31, 4B, pages 683-692 (1987)	
	✓	"In vitro Study on Siliceous fibres," H. Scholze & R. Conradt, <i>Proceedings of 1986 WHO IARC Conference</i>	
	✓	"Chemical Durability of Asbestos and of Man-made Mineral Fibres <i>in vivo</i> ," B. Bellman <i>et al.</i> , <i>Aerosol Scientist</i> , Vol. 17, No. 3, pages 341-345 (1986)	
	✓	"Prediction of Nuclear Waste Glass Durability from Natural Analogs," C.M. Jantzen, <i>Advances in Ceramics</i> , Vol. 20, Nuclear Waste Management II (1986)	
	✓	"Thermodynamic Model of Natural, Medieval and Nuclear Waste Glass Durability," C.M. Jantzen <i>et al.</i> , <i>Journal of Non-Crystalline Solids</i> , <b>67</b> :208-233 (1984)	
	✓	"A New Approach to Predicting the Durability of Glasses from Their Chemical Compositions," R.G. Newton and A. Paul, <i>Glass Technology</i> , <b>21</b> (6):307-309 (1980)	
	✓	"Inviscid Spinning of Filaments via Chemical Jet Stabilization," R.E. Cunningham, L.F. Rakestraw and S.A. Dunn, <i>American Institute of Chemical Engineers Symposium Series</i> , No. 180, Vol. 74, 20-31 (1978)	
	✓	"Chemical Durability of Glasses in the Systems $\text{SiO}_2\text{-CaO-Na}_2\text{O-R}_m\text{O}_n$ ," H. Ohta and Y. Suzuki, <i>Ceramic Bulletin</i> , Vol. 57, No. 6, pp. 602-604 (1978)	
	✓	"A Scale of Acidity and Basicity in Glass," Glass Industry, Kuan-Han Sun (1948)	
	✓	"Mineral Wool," <i>Encyclopedia of Chemical Technology</i> , Kirk & Other, Vol. 9, page 124 (copyright 1952)	
	✓	"Mineral Wool," U.S. Bureau of Mines Circular, 6984R, dated June 1939	
	✓	"Multi Component Silicate Glasses," pages 28-31	
	✓	"Slag Wools," pages 111-127	
	✓	"Preparation and Properties of Barium Ferrite Using Hot-Rolled Mill Scale," Chien, Yung-Tsen, <i>et al.</i> , <i>J. Am. Ceram. Soc.</i> , Vol 72, No. 8, pages 1328-1332 (1989)	
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<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)			
		"Advertisement for the Sale of a Fiber Glass Blanket Under the Name <i>New Super Wool</i> ™," published after September 1986 (on or about January 1987)	
	✓	"The Dissolution of Asbestos Fibres in Water," Gronow, J., <i>Clay Minerals</i> , Vol. 22, pages 21-35 (1987)	
	✓	"Man-Made Vitreous Fibers: An Overview of Studies on Their Biologic Effects," Gross, P., <i>Am. Ind. Hyg. Assoc. J.</i> , Vol. 47, No. 11, 717-723 (1986)	
	✓	"Solubility of Asbestos and Man-Made Fibers <i>In Vitro</i> and <i>In Vivo</i> : Its Significance in Lung Disease," Morgan, A., et al., <i>Environmental Research</i> , Vol. 39, pages 475-484 (1986)	
	✓	"Corrosion Phenomena in Glass Fibers and Glass Fiber Reinforced Thermosetting Resins," Bledzki, A. et al., <i>Composites Science &amp; Technology</i> , Harris and Chou, eds., Elsevier Applied Science Publishers, Vol. 23, pages 263-285 (1985)	
	✓	"Fiber Toxicology," Leineweber, J.P., <i>J. Occupational Medicine</i> , Vol. 23, No. 6, pages 431-434 (1981)	
	✓	"Development of a Deoiling Process for Recycling Millscale," <i>Recycling in the Steel Industry, Proceedings of the 1st Process Technology Conference</i> , Vol. 1, pages 184-187, Washington, D.C., (March 25-26, 1980)	
	✓	"Effects of Glass Surface Area to Solution Volume Ratio on Glass Corrosion," Ethridge, E.C. et al., <i>Physics and Chemistry of Glasses</i> , Vol 20, No. 2, pages 35-40 (1979)	
	✓	"Glass Compositions for Glass Fibers," Moriya, Ichiro, et al., <i>Chemical Abstracts</i> , Vol. 89, No. 22, page 285, Abstract 184615W (1978)	
	✓	"Glass for Making Glass Fiber," Grigor'ev, V.S., et al., <i>Chemical Abstracts</i> , Vol. 81, No. 22, Abstract 140076b (1974)	
	✓	"Dissolution Kinetics of Magnesium Silicates," Luce, R.W., et al., <i>Geochimica et Cosmochimica Acta</i> , Vol. 36, pages 35-50 (1972)	
		"Solubility of Fibres <i>In Vitro</i> and <i>in Vivo</i> ," J.P. Leinweber Proceedings of 1982 WHO IARC Conference, Copenhagen, Volume 2, pages 87-101 (1988)	
	✓	"Elements of Ceramics," Norton, F.H., <i>Addison-Wesley Publishing Co., Inc.</i> , page 39 Reading, Massachusetts (1952)	
	✓	Carlock, D.E., <i>Ceramic Fibres, Refractories Journal</i> , 58:17-20 (1983)	
	✓	Dietrichs & Kronert, <i>Gas Warne International</i> , 30 (1981)	
	✓	Ofentchnik Stahl & Eisen, 110(6):115 (1990)	
	✓	Keramische Zeitschriften, 33(9):516 (1981)	
	✓	Extract from DUB V ENV 1094, Part 7, section 7, 9-12	
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